Dissolved oxygen (D.O.) by Luminescence-Based Sensor **ASTM D888-09C (12C)**

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date:_____

Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____

Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____

Line No.	Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
1	Are samples analyzed within 15 minutes?	40CFR136.3 Table 1I				
2	If calibration is performed using Water-Saturated Air, is ¼ inch of water added to 300-mL BOD bottle, shaken vigorously for 30 seconds, and 30 minutes allowed for temperature equilibration?	D888-12C.29.4				
3	If calibration is performed using Air-Saturated Water, is the laboratory following the preparation process defined in the method?	D888-12C.29.5				
4	Is suitable turbulent flow provided past the sensor cap?	D888-12C.29.6				
5	Is calibration verification within 97-104% of theoretical DO concentration? [*Should*]	D888-12C.29.7.1				
6	If calibration verification is outside of theoretical range, is the sensor recalibrated and samples reanalyzed?	D888-12C.29.7.2				
7	If the calibration is using Nitrogen-Saturated Water for a zero point for a two point calibration, is the laboratory following the preparation process defined in the method?	D888-12C.29.8				
8 QC	Are IDCs performed using 4 replicates of air-saturated water and evaluated against Table 1?	D888-12C.31.3.1				
9 QC	Is an air-saturated reference water LCS analyzed and control limits established?	D888-12C.31.4.1				
10 QC	Is an air-saturated water reference sample analyzed in duplicate with each batch and evaluated against lab generated control limits?	D888-12C.31.6.1				
11 QC	Is an independent reference water sample analyzed and control limits established?	D888-12C.31.7				

Notes/Comments